



COLORADO

Department of Transportation

Office of the Chief Engineer
2829 W. Howard Place
Denver, CO 80204-2305

April 27, 2020

Mr. Gabriel Cosyleon
Environmental Program Manager/Ecologist – Region 2
Colorado Department of Transportation
1480 Quail Lake Loop
Colorado Springs, CO 80906

**RE: Asbestos and Lead-Based Paint Inspection Report for Bridge O-19-D
located at US 350 over Lunning Arroyo MM 10.287 North of Trinidad,
Colorado**

Dear Mr. Cosyleon,

The Colorado Department of Transportation (CDOT) Environmental Project Coordinator (EPC) completed an asbestos and lead-based paint inspection at bridge I-13-H located at US 350 over Lunning Arroyo Mile Marker (MM) 10.287 North of Trinidad, Colorado. The CDOT-EPC is a certified asbestos building inspector, certification # 13915.

On April 9, 2020 the CDOT-EPC performed the asbestos and lead-based paint inspection of the bridge. The bridge is approximately 71 feet in length by 30 feet in width and was constructed in 1937. The bridge is a treated timber stringer with a timber deck and Type V guardrails.

One suspect asbestos-containing material (ACM) was identified during the inspection. Two bulk samples were collected from a black, tar-impregnated coating material from the southwest and northwest edges of the bridge deck. The two bulk samples were non-detect for asbestos.

Painted substrates were not identified during the bridge inspection, thus paint samples were not collected.

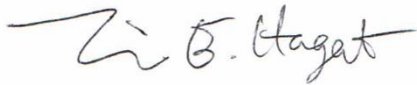
The bulk samples were submitted and analyzed by Polarized Light Microscopy (PLM) Analysis by Reservoirs Environmental, Inc. (Reservoirs). Reservoirs is an accredited laboratory for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and PLM analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - American Certificate #480.



The suspect ACM sampled during the inspection was non-detect for asbestos. Painted substrates were not identified during the bridge inspection, thus paint samples were not collected. Please contact (720) 582-0694 with any questions or concerns regarding this report.

Sincerely,

COLORADO DEPARTMENT OF TRANSPORTATION



Tim Hagert

Environmental Project Coordinator

Certified Asbestos Building Inspector #13915

Attachments: Suspect Asbestos Bulk Sample Summary Table
Laboratory Results
Sample Location Drawing
Photographic Log
Inspector Certificate



Suspect Asbestos Bulk Sample Summary Table

Sample ID	Sample Location	Lab Results	Condition	Material Description	Material Location	Friability	Estimated Quantity
O-19-D-TR01-01	Off southwest of bridge deck	<u>PLM</u> ND	Good	Black, hard tar along edged of bridge deck	Bridge deck	Non-Friable	50 SF
O-19-D-TR01-02 (lab mis-labeled as O-19-G-TR01-02 in lab report)	Off northwest of bridge deck	<u>PLM</u> ND					

Notes: ND – No Asbestos Detected
 PLM – Polarized Light Microscopy
 SF – Square Feet



April 10, 2020

Subcontractor Number:
Laboratory Report: RES 460457-2
Project #/P.O. #: 22362.10.50
Project Description: R2 Bridges

Tim Hagert
Colorado Dept. of Transportation (Denver)
2829 West Howard Place
Denver CO 80204

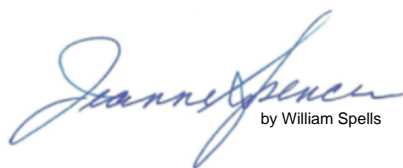
Dear Tim,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 460457-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



by William Spells

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 460457-2**
 Client: **Colorado Dept. of Transportation (Denver)**
 Client Project Number / P.O.: **22362.10.50**
 Client Project Description: **R2 Bridges**
 Date Samples Received: **April 10, 2020**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **Priority**
 Date Samples Analyzed: **April 10, 2020**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem/Act=Tremolite/Actinolite

Client Sample Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Estimate (%)		
P-19-G-MS01-01	A	White resinous material w/ colorless glass	100		ND	0	100
P-19-G-MS01-02	A	White resinous material w/ colorless glass	100		ND	0	100
O-19-D-TR01-01	A	Black tar	100		ND	0	100
O-19-G-TR01-02	A	Black tar	100		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Landon Spells
Landon Spells

Analyst / Data QA



RES Job #: 460457

SUBMITTED BY		INVOICE TO		CONTACT INFORMATION		SERIES	
Company:	COLORADO DEPT. OF TRANSPORTATION (DEN ...)	Company:	COLORADO DEPT. OF TRANSPORTATION (DEN ...)	Contact:	TIM HAGERT	-1	CHEM PRIORITY
Address:	2829 WEST HOWARD PLACE	Address:	2829 WEST HOWARD PLACE	Phone:	(720) 582-0694	-2	PLM PRIORITY
	DENVER, CO 80204		DENVER, CO 80204	Fax:			
Project Number and/or P.O. #:	22362.10.50			Final Data Deliverable Email Address:			
Project Description/Location:	R2 BRIDGES			TIM.HAGERT@STATE.CO.US (+ 1 ADDNL. CONTACTS)			

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES	
PLM / PCM / TEM	DTL RUSH PRIORITY STANDARD	PLM - Short Report Long Report, CARB 435 TEM - AHERA, (+/- or Quantified), Microvac (+/- or Quantified), Wipe (+/- or Quantified), NIOSH 7402, Yamate Level II, ISO 10312, ISO 13794, Chatfield, Waste Water, Drinking Water, Bulk +/-, CARB 435 PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - Analyte(s) Pb Lead Only (7082, 7420) Waste Water, Foodware, Multi Metal (7303, 8020A, 200 B, Waste Water, Foodware, OSHA ID-125G), pH (Liquid, Non-Liquid), TCLP, RCRA 8 Scan, Welding Fume Scan, Full Metals Scan ORGANICS - Methamphetamine, TSS Campylobacter, Bacillus, Salmonella (Culturable, 1-2), Listeria, E. coli O157:H7, E. coli/Coliforms - Plated, S. aureus, Yeast & Mold, Aerobic Plate Count, Coliforms/E. coli (State Water, Drinking Water, Non-Drinking Water, +/-, Quantification), Lactic Acid, Viable Microbial Count (w/w/D), Enterococcus (+/- or Quantification) MEDICAL - Biorburden, LAL MOLD - Spore Trap, Bulk Mold, Particulate Identification	Air = A	Bulk = B			
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			Dust = D	Food = F			
Dust	RUSH PRIORITY STANDARD		Paint = P	Soil = S			
Metals	RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT		Surface = SU	Swab = SW			
Organics*	SAME DAY RUSH PRIORITY STANDARD		Tape = T	Wipe = W			
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm			Drinking Water = DW				
Viable Analysis**	PRIORITY STANDARD **TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH		Waste Water = WW				
Medical Device Analysis	RUSH STANDARD		**ASTM E1792 approved wipe media only**				
Mold Analysis	RUSH PRIORITY STANDARD		Sample Volume (L) / Area	Length (or Aliquots) X Width (or Area per Aliquot)	Matrix Code	# of Containers	
Special Instructions:	**Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.**		Date Collected mm/dd/yy	Time Collected hr:mm	Laboratory Analysis Instructions		
Client Sample ID Number (Sample ID's must be unique)		ASBESTOS	CHEMISTRY	MICROBIOLOGY			
1 M-21-I-LP01			X		P		
2 M-21-I-LP02			X		P		
3 P-19-G-LP01			X		P		
4 P-19-G-LP02			X		P		
5 P-19-G-LP03			X		P		
6 P-19-G-MS01-01		X			B		
7 P-19-G-MS01-02		X			B		
8 O-19-D-TR01-01		X			B		
9 O-19-G-TR01-02		X			B		

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:		TIM HAGERT	Date/Time: 04/10/2020 8:22:28	Sample Condition: ACCEPTABLE
Received By:		ANNEMARIE KIEFFER	Date/Time: 04/10/2020 8:22:28	Carrier: HAND

O-19-D - sample locations

O-19-D-TR01-02




O-19-D



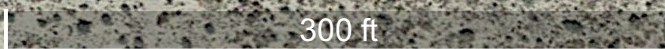
O-19-D-TR01-01



Legend
 O-19-D



Suspect Asbestos-Containing Material
Bulk Sample Locations



Bridge O-19-D Photographic Log



View of bridge O-19-D looking north.



Suspect asbestos-containing material O-19-D-TR01. The tar material is non-detect for asbestos.



View beneath bridge O-19-D.



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Tim Hagert

Certification No.: 13915

has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: January 21, 2020

Expires: January 26, 2021

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative